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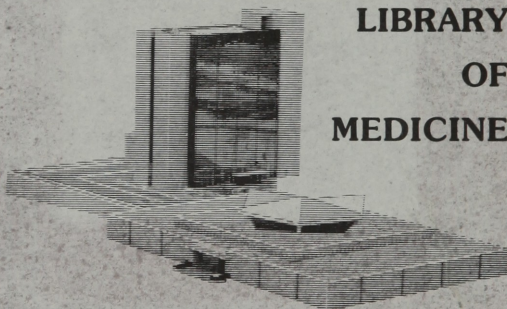


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Doctor Robert Fletcher M.D.  
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Feb. '87 1881-1887.

CONTRIBUTIONS TO SCIENCE  
—AND—  
BIBLIOGRAPHICAL RÉSUMÉ  
OF THE WRITINGS  
OF  
R. W. SHUFELDT, M. D.,

*Captain; Medical Department, U. S. Army,*

Member of the Philosophical, the Anthropological, the Biological, and the  
Entomological Societies of Washington; Member of the Cosmos of  
Washington; Member of the American Society for Psychical  
Research; Member of the American Ornithologists' Union;  
Cor. Member Soc. Ital. Anthropol. Ethnol. e Psicol.  
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Press of L. S. FOSTER, New York.  
1887.





# CONTRIBUTIONS TO SCIENCE

AND

## BIBLIOGRAPHICAL RÉSUMÉ

OF THE WRITINGS OF

R. W. SHUFELDT.

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1881.

1. Osteology of *Speotyto cunicularia hypogæa*. *Bull. U. S. Geol. and Geogr. Surv. Territories*, Vol. VI., No. 1, pp. 87-117, pll. I-III. Dept. of the Interior, Washington. Feb. 11, 1881.
2. Osteology of *Eremophila alpestris*. *Bull. U. S. Geol. and Geogr. Surv. Territories*, Vol. VI., No. 1, pp. 119-147, pl. IV. Dept. of the Interior, Washington. Feb. 11, 1881.
3. Notes on a few of the diseases and injuries in birds. *Amer. Nat.*, Vol. XV., Apr., 1881, pp. 283-285.
4. Behavior of *Leucosticte tephrocotis* in confinement. *Bull. Nutt. Ornithol. Club*, Cambridge, Mass. July, 1881, pp. 177, 178.

Gives an account of keeping a number of these birds in a large cage, during the summer months, at Fort Fetterman, Wyo.
5. Osteology of the North American *Tetraonidæ*. *Bull. U. S. Geol. and Geogr. Surv. Territories*, Vol. VI., No. 2, pp. 309-350, pll. V-XIII. Washington, Dept. of the Interior. Sept. 19, 1881.

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6. Osteology of *Lanius ludovicianus excubitorides*. *Bull. U. S. Geol. and Geogr. Surv. Territories*, Vol. VI., No. 2, pp. 351-359, pl. XIV., Sept. 19, 1881.

The four osteological memoirs given above, from the *Bull. U. S. Geol. and Geogr. Surv. Terr.*, were separately issued in pamphlet form, those on *Speotyto* and *Eremophila* being bound together. Paper covers, not repaged. The author also issued a limited number, rebound in board covers.

7. On the ossicle of the Antibrachium as found in some of the North American Falconidæ. *Bull. Nutt. Ornithol. Club*, Cambridge, Mass. Oct., 1881, pp. 197-203. One cut in text.

Refers to the sesamoid at the carpus in certain birds, previously described by A. Milne-Edwards, and here called the *os prominens*.

8. The claw on the index digit of the Cathartidæ. *Amer. Nat.*, Nov., 1881, pp. 906-908.

See letter to *Amer. Nat.* (Feb. '82, p. 141) from the late W. A. Forbes, Prosec. to the Zoöl. Soc. of London, accrediting the author of having first noticed this structure in the American Vultures.

9. Remarks upon the Osteology of *Opheosaurus ventralis*. Read before the Biological Society of Washington, Dec. 23, 1881, and publ. in *Proc. U. S. Nat. Museum*, Vol. IV., 1881, pp. 392-400. Nine figures drawn by the author illustrate the text.

The concealed vestiges of limbs of this lizard are described.

## 1882.

10. Note on *Mimus polyglottus*. *Bull. Nutt. Ornithol. Club*. Vol. VII., No. 3, July, 1882, p. 180.
11. Notes upon the Osteology of *Cinclus mexicanus*. *Bull. Nutt. Ornithol. Club*, Cambridge, Mass. Vol. VII., No. 4, Oct., 1882, pp. 213-221. Four figures in the text.
12. The number of bones at present known in the pectoral and



pelvic limbs of birds. *Amer. Nat.*, Vol. XVI., No. 2, Nov., 1882, pp. 892-895.

13. The bite of the Gila Monster [*Heloderma suspectum*]. *Amer. Nat.*, Nov., 1882, pp. 907, 908.

Extensively copied elsewhere. See *Nature*, London, No. 685, Vol. 27, Dec. 14, 1882, p. 154.

14. Contributions to the Anatomy of Birds. Author's Edition extracted (in advance) from the Twelfth Annual Report of the late U. S. Geological and Geographical Survey of the Territories (Hayden's). Washington, Government Printing Office, October 14, 1882. 8vo, title and pp. 593-806, pll. I-XXIV., many woodcc. in text.

### 1883.

15. A case of Daltonism affecting one eye. *The New York Medical Record*. March 24, 1883, p. 319.

16. Explorations in Louisiana. *Science*, Cambridge, Mass., Vol. I., No. 19, June 15, 1883, p. 556. [An anonymous report written for the Editor.]

17. The habits of *Murænopsis tridactylus* in Captivity, with observations on its Anatomy. *Science*, Cambridge, Mass. Vol. II., Aug. 10, 1883, No. 27, pp. 159-163. Four figures in text.

18. Observations on the habits of the American Chameleon (*Anolis principalis*). *Amer. Nat.*, Sept., 1883, Vol. XVII., No. 9, pp. 919-926. One full page figure of the lizard.

Copied in full by the *American Field*, Chicago, and extensively noticed elsewhere.

19. The United States Medical Service. *The Medical Record*. New York, Aug. 25, 1883, pp. 200-204.

Extensively noticed in other medical journals, and the English press. Favorably criticised by Prof. Elliott Coues, in *The Medical Record*, as well as by its editor, Dr. Geo. F. Shrady, in an editorial.

20. Observations upon the Osteology of *Podasocys montanus*.  
*The Jour. of Anat. and Phys., Normal and Pathological.*  
London, Oct., 1883. Vol. XVIII., Pt. I., pp. 86-102,  
Plate V.
21. Remarks upon the Osteology of *Phalacrocorax bicristatus*.  
*Science*, Vol. II., No. 41, Nov. 16, 1883, pp. 640-642.  
Three cuts in text.
22. *Romalea microptera*. *Science*, Vol. II., No. 47, Dec.  
28, 1883, pp. 811-814. [Illustrated by one full page  
lithographic plate, giving life-size figures, ♂ and ♀, of the  
insect.]
23. Osteology of the Cormorant. *Ibid.*, p. 822. [A reply to  
a criticism by Mr. J. Amory Jeffries, in *Science*, Dec.  
7, 1883, p. 739.]

## 1884.

24. Osteology of the Cormorant. *Science*. [Letter to the  
Editor.] Vol. III., No. 53, Feb. 8, 1884, p. 143.  
A reply to Mr. J. A. Jeffries (*Science*, III., 59).
25. Esplorazione di Un *Shell Mound* Indiano presso Nuova-  
Orleans (Luisiana S. U. d'America) di R. W. Shufeldt,  
Capo-Medico dell' armata degli S. U. d'America. Es-  
trato dall' Archivio per l' Anthropologia e l' Etnologia.  
Vol. XIII., Fasc. III., Firenze, 1883.
26. Osteology of the Cormorant. *Science*. [Letter to Editor.]  
Vol. III., No. 63, pp. 474, 475, April 18, 1884. [A  
reply to Doctor Theo. N. Gill.]
27. Osteology of *Ceryle alcyon*. *Jour. of Anat. and  
Phys.* Vol. XVIII., Pt. III. April, 1884, pp. 277-  
294, plate XIV., 2 wcc. in text. London and Cam-  
bridge.
28. Osteology of the Large-mouthed black bass. (Microp-



terus salmoides.) *Science*. [Letter to Editor.] Vol. III., No. 65, May 2, 1884, p. 532.

Describes for the first time a pair of ribs on the occipital bone.

29. Remarks on *Nyctinomus nasutus*. *The Standard Natural History*. Part 9, pp. 170, 171, Boston.

Copied in several places elsewhere, as *Science Record*, Vol. II., No. 3, Boston, Jan. 15, 1884.

30. The Couesian Period. *Forest and Stream*, New York, May 22, 1884, Vol. XXII., No. 17, p. 323. [Followed in May 29, No. 18, and concluded in No. 19, June 5, 1884.]

31. The Couesian Period. [A letter.] *Forest and Stream*. N. Y., June 19, 1884, p. 44.

32. Osteology of *Micropterus salmoides*. *Science*. [Letter to Editor.] Vol. III., No. 72, June 20, p. 749. One cut in text.

Gives side view of the skull of this bass, showing the occipital ribs previously described by the author.

33. The Debt of Science to the late Surgeon General Charles H. Crane, U. S. Army. *The N. Y. Med. Jour.*, Vol. XL., No. 11, Sept. 13, 1884, pp. 290-292.

34. Concerning some of the forms assumed by the patella in birds. *Proc. U. S. Nat. Museum*, Vol. VII., 1884, pp. 324-331.

Seven figures by the author illustrate the text.

35. Observations upon a collection of Insects made in the vicinity of New Orleans, Louisiana, during the years 1882 and 1883. *Proc. U. S. Nat. Museum*, Vol. VII., 1884, pp. 331-338. Five figures in text.

36. Osteology of *Numenius longirostris*, with notes upon the skeletons of other American Limicolæ. *Jour. of Anat. and Phys.*, London, October, 1884, pp. 57-82. Plates IV-V.



1885.

37. The Georgia Wonder-Girl and her Lessons. *Science*. [Letter to Editor.] Vol. V., No. 109, March 6, 1885, p. 189.

Copied by several papers in New York and Chicago.

38. The Osteology of *Amia Calva*, including certain special references to the skeleton of Teleosteans, pp. 132. Fourteen plates, 1 wc. in text. [Author's edition, extracted from the Annual Report of the Commissioner of Fish and Fisheries for 1883, pp. 747-878, Washington, Govt. Printing Office, 1885.]

39. Variations in the form of the beak, that take place during its growth, in the Short-tailed Albatross (*Diomedea brachyura*). *The Auk*, Vol. II., No. 2, Apr., 1885, pp. 175-178. 4 cuts in text.

40. The voice of Serpents. *Science*. [Letter to Editor.] Vol. V., No. 113, Apr. 3, 1885, p. 267. 2 cuts in the text.

41. The carnivorous habits of the Rodentia. *Science*. [Letter to Editor.] Cambridge, Mass. Vol. V., No. 114, p. 286, Apr. 10, 1885.

42. Abert's Squirrel. *Science*. [Letter to Editor.] Vol. V., No. 123, June 12, 1885, p. 474.

Life-size figure of the head of *S. aberti*, ♀, illustrates the text.

43. A complete fibula in an adult living carinate bird. *Science*. [Letter to Editor.] Vol. V., No. 125, June 25, 1885, p. 516. One figure in text.

44. Two Uvulæ in a Man. *The New York Medical Journal*, p. 723, June 27, 1885, Vol. XLI., No. 26. One figure in text.

Describes a double uvula in a man, and presents a figure of the parts.

45. Zuñi as it is. *Forest and Stream*, New York, July 2, 1885, pp. 446-448. Several figures in text.

Author's description of his trip to the Zuñian pueblo, New Mexico, and what he observed there.

46. On the coloration in life of the naked skin-træcts on the head of *Geococcyx californianus*. *Ibis*, London, July 1, 1885, pp. 286-288, plate VII.

Life-size colored figure of the head of the bird.

47. Probable period of gestation in the "horned toad." *Science*. [Letter to Editor.] Cambridge, Mass. Vol. VI., No. 135, Sept. 4, 1885, pp. 185, 186.

48. The Mexican Axolotl and its susceptibility to transformations. *Science*. [Letter to Editor.] Vol. VI., No. 138, Sept. 25, 1885, pp. 263, 264.

49. Zuñian conceptions of Animal Forms as shown in Pottery. *Science*, Vol. VI., No. 138, Sept. 25, 1885, pp. 266-268. Four figures in the text.

50. Professor Piper on Evolution. *Mind in Nature*. [Chicago, Ill.] Vol. I., No. 8, Oct., 1885, p. 128.

51. On the feeding habits of *Phalænoptilus nuttalli*. *The Auk*, Vol. II., No. 4, Oct., 1885, pp. 382, 383.

52. Description of *Hesperomys truei*, a new species belonging to the subfamily Murinæ. Plate XXI. (8 figures). *Proc. U. S. Nat. Museum*, 1885. Vol. VIII., pp. 403-408.

Describes a new mouse captured at Fort Wingate, New Mexico, and dedicated by the author to Mr. F. W. True, Cur. Dept. of Mammals, U. S. Nat. Museum.

53. "Furculum or Furcula." *Nature*, Vol. XXXIII., No. 1, pp. 8, 9, London, Nov. 5, 1885. [Letter to Editor in reply to Dr. Philip L. Selater, F. R. S., in regard to which term should be used.]

54. Paying one of our Penalties for the low standard of Medical Education in America. [Letter to Editor.] *The N. Y. Medical Journal*, Vol. XLII., No. 24, N. Y., Dec. 12, 1885, p. 668.



1886.

55. Feathered Forms of other Days. *The Century, Illustrated Monthly Magazine*, New York City and London, January, 1886, Vol. XXXI., No. 3, pp. 352-365. [Eleven drawings by the author illustrate the text.]

Very extensively noticed in both scientific and popular periodicals.

56. The Occult World. *Mind in Nature*, Vol. I., No. 11, January, 1886, pp. 163, 164.

Reprinted in full by several other papers, as the *Religio-Philosophical Journal*, Chicago, January 30, 1886, Vol. XXXIX., No. 23, p. 2.

57. Optional Retirement of Army Officers after twenty years' active service. *Army and Navy Register*, Washington, January 2, 1886, p. 4. [Letter to Editor, signed "Comme il faut."]

58. The English Sparrow. *Science*. [Letter to Editor.] New York City, January 1, 1886, Vol. VII., No. 152, p. 14.

Copied in full by the *Rural Press*, San Francisco, Cal., January 9, 1886.

59. On the free post-pubis in certain of the Falconidæ. *The Auk*, N. Y., January, 1886, Vol. III., No. 1, pp. 133, 134. [General Notes.] One figure in text.

60. The Skeleton in Geococcyx. *Jour. of Anat. and Phys.* London and Edinburgh, Vol. XX., Pt. II., January, 1886, pp. 244-266. Plates VII., VIII., and IX.

61. Science and the State. *Mind in Nature*. February, 1886, Vol. I., No. 12, pp. 178-180.

Extensively noticed in the daily press of New York, Chicago, and Washington, and copied in full in the *Evening Star* of the latter city. 50 copies issued by *Mind in Nature*.

62. A scientific corps for the Army and Navy. *Science*.

[Letter to Editor.] New York, Feb. 12, 1886, Vol. VII., No. 158, pp. 142, 143.

Warmly advocated in personal correspondence from a number of prominent men in science, who read it.

63. Is the Dodo an extinct bird? *Science*. [Letter to Editor.] New York, Feb. 12, 1886, Vol. VII., No. 158, p. 145.

Reply from E. Coues in No. 159.

64. Science and the State. [Second paper.] *Mind in Nature*, Chicago, Vol. II., No. 1, March, 1886, pp. 2-5.

65. The Occult World. [Letter to Editor.] *Mind in Nature*, Vol. II., No. 1, March, 1886, p. 7.

A reply to Professor E. Coues's criticism in Feb. number.

66. Is the Dodo an extinct bird? *Science*. [Letter to Editor.] Vol. VII., No. 162, March 12, 1886, p. 242.

Reply to Prof. Coues.

67. Certain questions relating to national endowment of research in this country, and their importance. *Science*. [Letter to Editor.] N. Y., Vol. VII., No. 164, March 26, 1886, pp. 284-286.

68. Outlines for a Museum of Anatomy, prepared for the Bureau of Education, by R.W. Shufeldt. [*Bulletin*, 65 pages, six wcc. in text.] Washington, Government Printing Office, U. S. Bureau of Education, Dept. of the Interior, 1885.

An edition of several thousand issued to men of science and literature, and to the schools and universities in all parts of the world.

Among those who favorably commented upon the work on the return receipts to the Bureau, were noted the names of Dr. O. W. Holmes; Professor Elliott Coues; Dr. E. C. Spitzka; Dr. Thomas Dwight, of the Harvard Medical School; Dr. Aug. C. Bernays, M. R. C. S., Eng.; Prof. A. H. Mackay, of the Pictou Academy of Nova Scotia; Prof. B. G. Wilder; Doctor Joseph Leidy; Doctor M. Foster, F. R. S.; Doctor Geo. W. Davis; Prof. E. W. Claypole; Prof. Hunter Nicholson, and many others.



69. The distinction between Anatomy and Comparative Anatomy. *Science*. [Letter to Editor.] N. Y., Vol. VII., No. 166, Apr. 9, 1886, p. 328.
70. Contribution to the Comparative Osteology of the Trochilidæ, Caprimulgidæ, and Cypselidæ. *Proc. Zool. Soc. of London*, Dec. 1, 1885, pp. 886-915. Plates LVIII-LXI. Several woodcuts in text. [Appeared Apr. 1, 1886.]
71. On some of the early, and as yet unpublished, drawings of Audubon.  
Read for the author by Mr. F. W. True, Cur. Dept. of Mammals, U. S. Nat. Mus., before the Biological Society of Washington, Apr. 3, 1886. Subsequently incorporated in an article for *The Auk*. (See 96.)
72. A Navajo artist.  
Read for the author by Professor Otis T. Mason, of the U. S. Bureau of Ethnology, before the Anthropological Society of Washington, Apr. 6, 1886, and accepted as a contribution for the Report of the Bureau. Illustrated by several drawings and photographs.
73. Certain questions relating to national endowment of research in this country, and their importance. *Science*. [Letter to Editor.] Vol. VII., No. 168, Apr. 23, 1886, p. 374.  
Reply to W. S. N. in No. 165.
74. Osteology of *Conurus carolinensis*. *Jour. of Anatomy and Physiology*. London, April, 1886, Vol. XX., Pt. III., Art. 4, plates X., XI., pp. 407-425.
75. A Navajo skull. *Ibid.* Art. 5, plate XII., pp. 426-429.  
See also in the same issue Art. 6, "Note on Navajo skull," by Professor Sir William Turner, F. R. S.
76. Thoughts prompted by the Contributions of Bishop Coxe to the First Volume of *Mind in Nature*. *Mind in Nature*, Vol. II., No. 3, May, 1886, pp. 35, 36.  
Adverse criticism upon certain anatomical misconceptions contained in the contributions of the Rt. Rev. A. Cleveland Coxe, of New York.

77. Science and the State. *The New York Medical Journal*. Vol. XLIII., No. 2, N. Y., Saturday, May 22, 1886, pp. 567-569.

Separately published (50 copies) with paper covers, same title, 12mo, and repaged.

78. Evolution and the faith. *Science*. [Letter to Editor.] Vol. VII., No. 173, May 28, 1886, p. 483.

A criticism of Rev. T. T. Munger's article which appeared in *Century Magazine*, May, 1886.

79. A national zoölogical garden. *Science*. [Letter to Editor.] Vol. VII., No. 174, June 4, 1886, p. 505.

80. On a method of forming the fenestra in Plaster-of-Paris bandages for compound fractures. *The New York Medical Journal*. Vol. XLIII., No. 26, June 26, 1886, pp. 721, 722. One figure in text.

81. A study of Planchette. *Mind in Nature*. Chicago. Vol. II., July, 1886, No. 2, pp. 72-74.

Severely attacked by a number of the Church papers,—as the *Christian Woman*, Philadelphia, Aug., 1886, Vol. XV., No. 8,—and others.

82. Swifts, Hummingbirds, and Goatsuckers. *Forest and Stream*, N.Y., Vol. XXVI., No. 23, July 1, 1886, p. 447.

83. Private research and government science. *Science*. [Letter to Editor.] Vol. VIII., No. 179, July 9, 1886, p. 35.

84. A most extraordinary structure. *Science*. [Letter to Editor.] Vol. VIII., No. 180, July 16, 1886, pp. 57, 58.

A reply to Professor Elliott Cones.

85. The Classification of the Macrochires. *The Auk*. [Letter to Editor.] Vol. III., n. s., No. 3. July, 1886, pp. 414, 415.



86. Another carnivorous rodent. *Science*. [Letter to Editor.] Vol. VIII., No. 182, July 30, 1886, p. 102.

Announcing the fact that the little prairie marmot (*C. ludovicianus*) was discovered by the author to be very fond of raw meat.

87. The Future for American Ornithology. *Forest and Stream*. N. Y., Vol. XXVII., No. 5, August 26, 1886, p. 84.

Read for the author by Mr. H. K. Coale, of Chicago, before the Ridgway Ornithological Club of Chicago, August 12, 1886.

88. A mummified frog. *Science*. [Letter to Editor.] Vol. VIII., No. 190, Sept. 24, 1886, pp. 279, 280, one cut in text.

89. On the injuries of the beak in Birds, and the method of repair. *Jour. of Comp. Med. and Surg.* Phila., Vol. VII., No. 4, Oct., 1886, pp. 357-359. One figure in text.

90. A mummified frog. *Science*. [Letter to Editor.] Vol. VIII., No. 192, Oct. 8, 1886, p. 326.

A correction.

91. Polydactylism. *Science*. [Letter to Editor.] Vol. VIII., No. 194, Oct. 22, 1886, pp. 367, 368. Three figures illustrate the text.

92. Larval amblystomas for laboratory work. *Science*. [Letter to Editor.] N. Y., Vol. VIII., No. 194, Oct. 22, 1886, p. 367.

Gives notice that the author has forwarded several hundred living amblystomas to the Smithsonian Institution for the use of the biological laboratories of the colleges and universities, and for special workers.

93. Some curious facts. *Mind in Nature*. Vol. II., No. 9, Nov., 1886, pp. 133-135.

94. On the figures illustrating zoölogical literature. *Science*. [Letter to Editor.] Vol. VIII., No. 195, Oct. 29, 1886, pp. 389, 390.

95. Head flattening among the Navajos.

A paper, illustrated by photographs, read for the author by Prof. Otis T. Mason, before the Anthropological Society of Washington, 2d Nov., 1886, and accepted as a contribution for the Report of the Bureau of Ethnology.

96. On an old portrait of Audubon, painted by himself, and a word about some of his early drawings. *The Auk*. Vol. III., No. 4, Oct., 1886, pp. 417-420.

The frontispiece, a portrait of Audubon, a reproduction secured by the author, and published for the first time.

97. The Classification of the Macrochires. [Second Letter.] *The Auk*. Vol. III., No. 4, Oct., 1886., pp. 491-495.

A reply to a criticism by Dr. Leonard Stejneger, of the Smithsonian Inst., in a former number.

98. Skull of a Navajo child. *Jour. of Anat. and Phys.* London, Vol. I., Pt. I., Oct., 1886, n. s., pp. 66-71.

Illustrated by two original drawings of the skull.

99. Osteological Note upon the young of *Geococcyx californianus*. *Jour. of Anat. and Phys.* London, Vol. I., Pt. I., Oct., 1886, n. s., pp. 101, 102. Two cuts in text.

100. Voluntary Amputation among Crayfish. *Science*. Vol. VIII., No. 200, Dec. 3, 1886, pp. 522, 523.

A translation and review of M. H. de Varigny's "*L'amputation réflexe des pattes chez les crustacés*," from the *Revue Scientifique*, 4 t., Sept., 1886, undertaken at the request of the Editor of *Science*, 3d Nov., 1886, for *Science*, and published anonymously.

101. "Indocti Discant, et Ament Meminisse Periti." *Army and Navy Register*. Washington, Dec. 11, 1886. Vol. VII., No. 50, p. 789.

Inviting the Editor's attention to the fact that the author's scientific papers are often wrongly accredited to his father, Admiral R. W. Shufeldt, U. S. Navy (retired), or to his brother, Lieut. M. A. Shufeldt, of the Navy; and cites an instance in the *Register*.



102. Comparative Morphology. *Science*. Vol. VIII., No. 204, Dec. 31, 1886, pp. 638, 639.

A review of W. N. Parker's translation of Wiedersheim's Comparative Anatomy of Vertebrates. Furnished at the request of the Editor of *Science*.

## 1887.

103. A note on Indian Craniology. [Letter to Editor.] *The Popular Science Monthly*. Vol. XXX., No. 3, New York, Jan., 1887, p. 409.

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*Certain MS. Writings and Reports.*

104. A series of thermometrical observations upon children.

In MS., and illustrated by six large charts.

This production secured to the writer the reward for the prize thesis, upon his graduation (1876), at the medical college of the Columbian University of Washington, D. C. It is based upon some six thousand (6,000) personal observations upon children, consisting of bi-daily and systematic records upon their pulses, temperatures, respirations, etc., and carefully compared with their environment.

The subjects were six children, chosen from the wards of the St. John's Hospital of Washington; and the time of taking the observations extended over seven months, with but one or two individual daily records that, owing to unavoidable circumstances, were missed. The normal curve of measles is shown in a child, uninfluenced by medical treatment.

The original thesis is now on file in the Surgeon General's Office of the Army, at Washington.

105. Report on the Section of Comparative Anatomy. [Museum and Library, Surgeon General's Office, U. S. A.] In MS., January, 1884, pp. 67. Seven full-page photographs, and 5 wcc. in text. [One copy, bound, sent through the Curator, Surgeon John S. Billings, U. S. A. to Surgeon General Robert Murray, U. S. Army.]

At the time this Report was made the writer was in charge of the Section of Comparative Anatomy in the Museum of the Surgeon General's Office, and in it he pointed out the exact condition of everything that pertained to the collection and care of the specimens of the Section in question; how that a large proportion of them were in a very dilapidated condition, and had been most unscientifically mounted and labelled for years past by Dr. F. Schafhirt, and his son and assistant E. Schafhirt, the latter then, there on duty.

The Report further shows the steps taken, and progress made by the writer to improve this state of affairs of the Section, and the valuable specimens con-

tained in it; and further recommends the discharge of E. Schafhirt, the anatomist, and the appointment of Mr. Jacob L. Wortman, of Philadelphia, in his stead. Further the Report makes suggestions for the future care of the collections, and compares it with collections of a similar character in Europe and elsewhere. This Report is at present on file in the Surgeon General's Office, Washington.

*Certain drawings made by the writer, and furnished other authors to illustrate their published works.*

106. "Cystic Tumor of the Epiglottis." On page 3 of a *Cystic Tumor of the Epiglottis*, by Ethelbert Carroll Morgan, A.B., M.D., etc. [Reprinted, with additions, from the ARCHIVES OF LARYNGOLOGY. Vol. III., No. 2, April, 1882.]
107. Two figures (life-size) illustrating head and mouth-parts of *Pityophis sayi bellona*. *Amer. Nat.*, Jan., 1884, p. 20. [In a paper, "On the character and function of the Epiglottis in the Bull-Snake (*Pityophis*). By C. A. White, M. D.]
108. The colored frontispiece, "Anatomy of Pigeon," in *Key to North American Birds, etc.*, by Elliott Coues, 2d ed., Boston, 1884. Together with the following figures in the text of the same work :

Fig. 27,	page 106.	Fig. 75,	page 169.
29,	107.	76, 77,	170.
31,	113.	78,	171.
34,	119.	79,	172.
54,	135.	90-95,	198.
55,	135.	98,	202.
56,	136.	102,	210.
58,	145.	112 <i>bis</i> ,	229.
59,	146.	112 <i>ter</i> ,	233.
60,	147.	114,	241.
61,	148.	441,	634.
62,	150.	502,	723.
63,	151.	504,	725.
72,	167.	505,	725.
73 and 74,	168.	530 <i>bis</i> ,	792.



Figure 114 is reproduced from the *Bull. Nutt. Ornithol. Club*, and figures 502, 504, 505 are from *Science*, my original paper on "Osteology of the Cormorant."

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*Certain Memoirs, etc., either in press or the hands of the publishers.*

109. Notes on the Visceral anatomy of certain Auks. Two figures. [Sent to the Editor of the *Proc. Zool. Soc.* of London, 25th Oct., 1886. Accepted.]
110. On the posterior flattening of the skull among the Navajos. [See No. 95.]
111. A correction; with additional notes upon the Anatomy of the Trochili, Caprimulgi, and Cypselidæ. Six (6) figures. 21st June, 1886. [Accepted for publication for the P. Z. S. of London. Read by the Secretary, Dr. P. L. Selater, F. R. S., on the 16th Nov., 1886.]
112. Contributions to the Anatomy of American Vertebrates. [With four hundred and twenty-nine (429) original drawings by the author, of which 297 are in the text, and the remainder in 18 lithographic plates. 1,294 folio pp. MS. Accepted as a Bulletin for the U. S. National Museum, August, 1886, and will be published as soon as the appropriation is secured for it. It is now in the hands of the Smithsonian Institution.]
113. Some of the Animals that inhabited this country during Geologic Times. 70 folio pp. MS., 16 original drawings. [Presented to the *Popular Science Monthly* of New York City, who for some time had it in their possession, but the expensive character of the illustrations proved an impediment to its publication. Withdrawn by the author, and now undergoing revision at his hands.]

114. Hints to Explorers and Naturalists in the field, about the preparation, care, and transportation of vertebrate skeletons in the rough. 24 folio pp. MS. [Accepted as a letter by the Secretary of the Smithsonian Institution, to be published in a circular "now preparing [15th January, 1885] on the same subject."]
115. Observations upon the habits of *Micropus melanoleucus*, with critical notes upon its plumage and external characters. With a life-size colored plate of the Bird. [Accepted 15th Oct., 1886, as a contribution for the *Ibis*, of London.]
116. Contributions to the Anatomy of *Geococcyx californianus*. Illustrated by two (2) colored plates, and seven (7) figs. in the text. [Accepted for publication for the P. Z. S. of London, July, 1886. Read Nov. 16, 1886, by Dr. P. L. Selater, F. R. S., Secretary to the Society.]
117. Planchette. 13 folio pp. MS. [Recently forwarded to *Mind in Nature*. Accepted for the January number, 1887.]
118. An Interesting Historical Letter. *The Magazine of American History*. New York. [Under consideration.]
119. Anatomy of the Teeth. Recently presented to *The Boston Journal of Medicine and Surgery*. 9 folio pp. MS., 29th Nov., 1886. [Review of Wortman's Comparative Anatomy of the Teeth of Vertebrates.]
120. Specialization in Medicine, and the Medical Department of the Army. 28 folio pp. MS. [Undergoing revise by the author.]
121. Classification of the Macrochires. [Third Letter.] *The Auk*. Nov. 17, 1886, forwarded for publication. [Accepted for the January number, 1887.]



122. 1881-1887. Contributions to Science and Bibliographical Résumé of the writings of R. W. Shufeldt, M. D., Captain; Med. Dept. U. S. Army, etc.

To be published by their author, and issued from the press of L. S. Foster, of New York City, 1887.

123. On a collection of Birds' sterna and skulls, collected by Doctor Thos. H. Streets, U. S. Navy. [Completed, and has already been forwarded to the Zoölogical Society of London for publication.]

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*Memoirs in the course of preparation, which are far advanced, and for which a large number of drawings are completed.*

Studies of the Macrochires, morphological and otherwise, with the view of pointing out their relationships, and defining their several positions in the system. [Well advanced.]

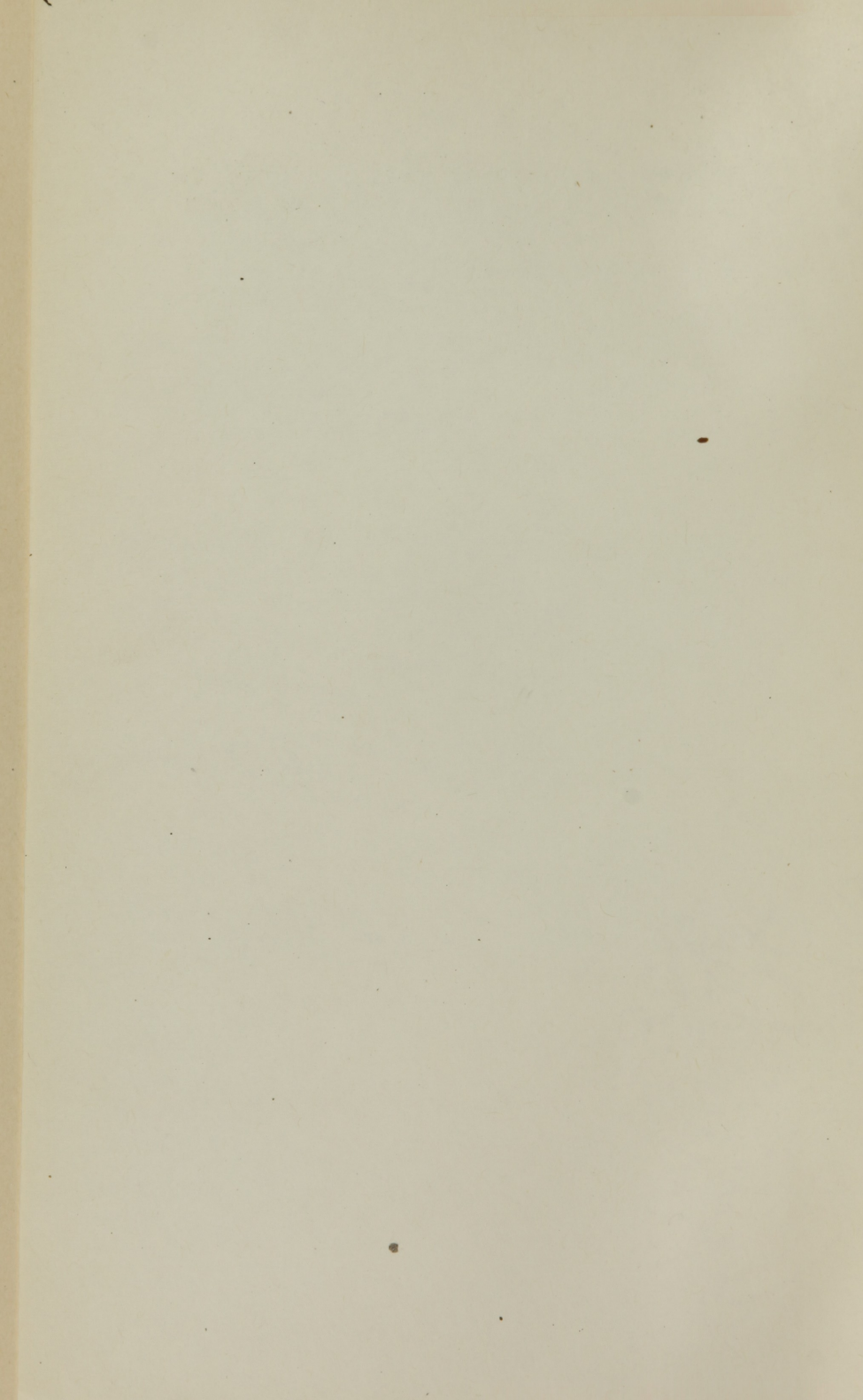
The Anatomy of Fœtal Reindeer (*Rangifer tarandus caribou*). A contribution to the Morphology of the *Cervidæ*. [Well advanced.]

On the Comparative Osteology of the N. American *Icteridæ* and *Corvidæ*. [Many drawings completed.]

Several minor papers, in various stages of completion, and for which numerous drawings are already completed.











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